Market Sample #26

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March 30, 1983

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Motor Vehicle Pollution
Environmental Protection Agency

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Source: https://www.industrydocuments.ucsf.edu/docs/hgkk0001

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FEDERAL TRADE COMMISSION

"Tar", Nicotine and Carbon Monoxide Content of the Smoke of 208 Varieties of Cigarettes

AGENCY: Federal Trade Commission.

ACTION: Publication of "Tar", Nicotine and Carbon Monoxide Content of the Smoke of 208 Varieties of Cigarettes.

SUMMARY: The Federal Trade Commission publishes the "tar", nicotine, and carbon monoxide content of domestic cigarettes.

FOR FURTHER INFORMATION CONTACT: Judith P. Wilkenfeld, Bureau of Consumer Protection, Federal Trade Commission, Washington, D.C. 20580 (202–724–1499) or Harold C. Pillsbury, Bureau of Consumer Protection, Federal Trade Commission, Washington, D.C. 20580 (202–523–3559).

SUPPLEMENTARY INFORMATION: The Federal Trade Commission's Laboratory has determined the "tar" (dry particulate matter), total alkaloid (reported as nicotine) and carbon monoxide content of 208 varieties of cigarettes. The Laboratory utilized the Cambridge filter method with the following specifications as set forth in the Commission's announcement of July 31, 1967 (31 FR 11178) and July 10, 1980 (45 FR 26483).

1. Smoke cigarettes to a 23 mm. butt length, or to the length of the filter and overwrap plus 3 mm. if in excess of 23 mm.

2. Base results on a test of approximately 90 cigarettes per brand, or type.

3. Cigarettes to be tested will be selected on a random basis, as opposed to "weight selection".

4. Determine particulate matter on a "dry" basis employing the gas chromatography method published by C. H. Sloan and B. J. Sublett in *Tobacco Science 9*, page 70, 1965, as modified by F. J. Schultz' and A. W. Spears' report published in *Tobacco*, Vol. 162, No. 24, page 32, date June 17, 1966, to determine the moisture content.

5. Determine and report the "tar" content after subtracting moisture and alkaloids (as nicotine) from particulate matter.

6. Carbon Monoxide is determined by non-dispersal infrared spectrophotometer.

Concerning the 208 varieties tested, 15 were capable of being smoked to 23 mm. The butt length of the other 193 varieties tested ranged from 24.3 mm. to an average of between 40.3 to 44.0 mm. The butt length of 169 of the 208 varieties tested exceeded 30 mm.

The samples used were obtained by attempting to purchase two packages of each variety of cigarettes as distributed by domestic cigarette manufacturers during December 1981 through February 1982 in each of 50 geographic locations throughout the country. Not all varieties of cigarettes were available in each of the 50 geographic locations and in these instances, one or more additional packages of cigarettes were purchased in those geographic locations where respective varieties were available. The samples utilized in the tests were representative of the 208 varieties of cigarettes as available throughout the country at the time of purchase.

The "tar" and carbon monoxide figures have been rounded to the nearest milligram (0.5 milligrams and greater rounded up, 0.4 milligrams and less rounded down) and the nicotine figures have been rounded to the nearest tenth of a milligram (0.05 milligrams and greater rounded up, 0.04 milligrams and less rounded down).

It should be noted that cigarette brands with assay results for "tar" and carbon monoxide below 0.5 mg. per cigarette and for nicotine below 0.05 mg. per cigarette are recorded in the accompanying tables as <0.5 mg. "tar", <0.05 mg. nicotine and <0.5 mg carbon monoxide. The tables do not differentiate between these cigarettes because the current, approved testing methodology is not sensitive enough to differentiate between cigarettes at these levels.

The various test results for all brands of Barclay cigarettes have been reported with *an asterisk*(*) in the tables within this Report as they were in the Report of December 1981, because a controversy continues to exist as to whether the FTC testing methodology understates the "tar", nicotine and carbon monoxide delivery of Barclay cigarettes. On June 25, 1982, following an investigation, the Commission determined that its current cigarette testing methodology does not measure accurately the "tar", nicotine

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By direction of
Benjamin I. Berm
Acting Secretary.

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Source: https://www.industrydocuments.ucsf.edu/docs/hgkk0001

and CO delivery of Barclay cigarettes. The Commission's decision is currently the subject of a pending court suit filed by Brown & Williamson Tobacco Corporation, manufacturer of Barclay.

The Commission has also found that there is a significant likelihood that the same problem (namely, an inaccurate reporting of the "tar", nicotine and CO delivery) exists with respect to Kool Ultra and Kool Ultra 100's, two other brands of cigarettes manufactured by Brown & Williamson. However, the Commission has not concluded at this time that Kool Ultra and Kool Ultra 100's are ranked inappropriately. Three asterisks [* * *] have been appended to the test scores for Kool Ultra and Kool Ultra 100's in this report to indicate this controversy.

By direction of the Commission, dated

Benjamin I. Berman,

Acting Secretary.

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Source: https://www.industrydocuments.ucsf.edu/docs/hgkk0001

TAR, NICOTINE AND CARBON MONOXIDE CONTENT OF TWO HUNDRED-EIGHT [208] VARIETIES OF DOMESTIC CIGARETTES

BRAND	TYPE	TAR (mg/cig)	NICOTINE (mg/cig)	CARBON MONOXIDE (mg/cig)
Aloha	king size, filter, menthol	14	0.9	14
Barclay*	king size, filter, (hard pack)	1	0.2	1
Barclay*	king size, filter	1	0.1	1
Barclay 100's*	king size, filter, menthol	1	0.1	1
Barclay 100's*	100 mm, filter	3	0.3	3
Basic	king size, filter, menthol	9	0.7	10
Basic 100's	100 mm, filter, menthol	11	0.9	11
Benson & Hedges	reg. size, filter, (hard pack)	1	0.1	2
Benson & Hedges 100's	king size, filter, (hard pack)	16	1.2	13
Benson & Hedges 100's	100 mm, filter, (hard pack)	16	1.1	15
Benson & Hedges 100's	100 mm, filter, menthol, (hard pack)	17	1.1	15
Benson & Hedges 100's	100 mm, non-filter	17	1.1	16
Benson & Hedges Lights 100's	100 mm, filter, menthol	11	0.8	12
Benson & Hedges Lights 100's	100 mm, filter, (hard pack)	11	0.8	13
Benson & Hedges Lights 100's	100 mm, filter, menthol, (hard pack)	11	0.8	12
Benson & Hedges Lights 100's	100 mm, filter, menthol	11	0.8	12
Best Buy	king size, filter	20	2.0	22
Cambridge	king size, filter, (hard pack)	<0.5	<0.05	1
Cambridge 100's	100 mm, filter	1	0.1	1
Camel	reg. size, non-filter	20	1.3	18
Camel	king size, filter	16	1.0	15
Camel Lights	king size, filter, (hard pack)	9	0.7	9
Camel Lights	king size, filter	12	0.8	10
Camel Lights 100's	100 mm, filter, (hard pack)	<0.5	<0.05	<0.5
Carlton	king size, filter, (hard pack)	1	0.1	2
Carlton	king size, filter, menthol	<0.5	0.1	1
Carlton 120's	100 mm, filter, (hard pack)	1	0.1	1
Carlton 120's	100 mm, filter, menthol, (hard pack)	<0.5	<0.5	<0.5
Carlton 120's	100 mm, filter	4	0.4	5
Carlton 120's	100 mm, filter, menthol	4	0.4	5
Carlton 120's	120 mm, filter	6	0.5	6
Carlton 120's	120 mm, filter, menthol	6	0.5	6
Chesterfield	reg. size, non-filter	20	1.3	12
Chesterfield	king size, non-filter	24	1.5	14
Chesterfield	king size, filter	16	1.0	10
Chesterfield 100	100 mm, filter	16	1.1	11
Decade	king size, filter	5	0.5	6
Decade 100's	king size, filter, menthol	6	0.5	6
Doral II	king size, filter	4	0.4	4
Doral II	king size, filter, menthol	4	0.4	3
Dutchmaster	king size, filter, (hard pack)	15	1.2	10
English Ovals	reg. size, non-filter, (hard pack)	23	1.7	12
English Ovals	king size, non-filter, (hard pack)	27	2.0	13
Eve Lights 100's	100 mm, filter	13	1.0	11
Eve Lights 120's	100 mm, filter, menthol	13	1.0	11
Eve Lights 120's	120 mm, filter, (hard pack)	13	1.1	11
Eve Lights 120's	120 mm, filter, menthol, (hard pack)	14	1.1	11
Galaxy	king size, filter	16	0.7	16
Golden Lights	king size, filter	8	0.6	8
Golden Lights	king size, filter, menthol	8	0.6	8
Golden Lights 100's	100 mm, filter	8	0.6	8
Golden Lights 100's	100 mm, filter, menthol	8	0.7	9
Hall & Hall	king size, filter	18	1.4	16

BRAND	TYPE	TAR (mg/cig)	NICOTINE (mg/cig)	CARBON MONOXIDE (mg/cig)
Herbert Tarayton	king size, non-filter	26	1.8	18
Kaiburg 100's	100 mm, filter, menthol	3	0.3	4
Kent	king size, filter, (hard pack)	13	0.8	12
Kent	king size, filter	13	0.8	12
Kent III	king size, filter	12	0.8	12
Kent III 100's	100 mm, filter	14	0.9	14
Kool	100 mm, filter, menthol	16	1.2	14
Kool	100 mm, filter	16	1.2	15
Kool	reg. size, non-filter, menthol	18	1.6	14
Kool	king size, filter, menthol, (hard pack)	11	1.1	11
Kool	king size, filter, menthol	15	1.2	15
Kool Lights	king size, filter, menthol	8	0.7	9
Kool Milds	king size, filter, menthol	11	0.8	11
Kool Super Lights	king size, filter, menthol	8	0.5	8
Kool Ultra**	king size, filter, menthol	2	0.2	2
Kool Super Longs 100's	100 mm, filter, menthol	14	1.2	11
Kool Lights 100's	100 mm, filter, menthol	11	0.8	11
Kool Milds 100's	100 mm, filter, menthol	12	0.8	12
Kool Super Lights 100's	100 mm, filter, menthol	5	0.4	5
Kool Ultra 100's***	100 mm, filter, menthol, (hard pack)	4	0.4	4
L & M	king size, filter	15	1.0	14
L & M Lights	king size, filter	9	0.8	11
L & M 100's	100 mm, filter	15	1.0	14
L & M Lights 100's	100 mm, filter	9	0.8	11
L & M Lights 100's	100 mm, filter, menthol	9	0.8	11
Lark	king size, filter	15	1.0	12
Lark Lights	king size, filter	9	0.7	10
Lark 100's	100 mm, filter	15	1.0	12
Lark Lights 100's	100 mm, filter	9	0.8	11
Long John 120's	120 mm, filter, menthol	16	1.1	15
Lucky Strike	reg. size, non-filter	24	1.8	15
Lucky Ten	king size, filter	9	0.7	10
Lucky 100's	100 mm, filter	9	0.7	10
Marlboro	king size, filter, (hard pack)	16	0.9	14
Marlboro	king size, filter, menthol, (hard pack)	16	0.9	14
Marlboro	king size, filter	16	1.1	14
Marlboro	king size, filter, menthol	16	1.1	14
Marlboro Lights	king size, filter, (hard pack)	11	0.8	11
Marlboro Lights	king size, filter	11	0.8	11
Marlboro 100's	100 mm, filter, (hard pack)	17	1.1	14
Marlboro Lights 100's	100 mm, filter	11	0.8	11
Max 100's	120 mm, filter, menthol	18	1.4	13
Max 120's	king size, filter	16	1.4	13
Merit	king size, filter, menthol	6	0.5	6
Merit Ultra Lights	king size, filter	4	0.3	4
Merit Ultra Lights	king size, filter, menthol	3	0.3	3
Merit 100's	100 mm, filter	11	0.7	11
Merit 100's	100 mm, filter, menthol	9	0.7	10
Micronite	king size, filter, (hard pack)	15	1.2	12
More Lights 100's	king size, filter	9	0.7	9
More Lights 100's	100 mm, filter, (hard pack)	9	0.7	9
More 100's	100 mm, filter	17	1.2	15
More 100's	120 mm, filter, menthol	17	1.2	15
Multifilter	king size, filter	12	0.8	10
Newport	king size, filter, menthol	12	0.8	10
Newport	king size, filter, menthol, (hard pack)	11	0.8	11
Newport Lights	king size, filter, menthol, (hard pack)	8	0.7	9
Newport Lights	king size, filter, menthol	8	0.7	9
Newport Red	king size, filter, (hard pack)	13	1.0	11
Newport 100's	100 mm, filter, menthol	13	1.0	15
Newport Lights 100's	100 mm, filter, menthol	8	0.7	10
Nomad	king size, filter, menthol	8	0.4	9

(1) The term "menthol" does not appear on the brand.
(2) Kidney's blend cigarettes contain 50% reconstituted tobacco.
* Tax increase in last processing period.
** Tax decrease in last processing period.
*** See comments in text concerning Kool Ultra.

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Source: https://www.industrydocuments.ucsf.edu/docs/hgkk0001

BRAND	TYPE	TAR (mg/cig)	NICOTINE (mg/cig)	CARBON MONOXIDE (mg/cig)
Yoorly Super Longs 100's	100 mm, filter, menthol	15	1.0	11
Yoorly Rich Lights 100's	100 mm, filter	10	0.8	8.6
Virginia Slims 100's	100 mm, filter	15	1.0	11
Virginia Slims 100's	100 mm, filter, menthol	15	1.0	11
Virginia Slims Lights 100's	100 mm, filter, menthol (blend package)	8	0.6	4.5
Virginia Slims Lights 100's	100 mm, filter, (blend package)	8	0.6	4.5
Winston	King size, filter, (blend package)	18	1.2	15
Winston	King size, filter	18	1.2	15
Winston Lights	King size, filter	11	0.8	8.6
Winston Ultra	King size, filter	8	0.6	4.5
Winston 100's	100 mm, filter	18	1.2	15
Winston Lights 100's	100 mm, filter	11	0.8	8.6
Winston Ultra 100's	100 mm, filter	8	0.6	4.5
Winston International 100's	100 mm, filter	18	1.2	15

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